KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

ility Name: GP-Former Allison Plant 10	KEI Project #: 2829e-001/003
ıple I.D.: 69-5	Well Location:

Monitoring Well Data		
Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	23.6	ft
Depth to product		ft
Depth to water (DTW)	19.15	ft

Sample Types (circle all applicable)
~~Monitoring Well~~
~~Grab~~/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling		
Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	x	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

⇐OR⇒

Micropurge sampling		
Depth of pump placement (place mid-screen)	20.6	ft
Bubbles purged from flow cell?	(Y)/ N	
Is drawdown >0.3 feet	(Y)/ N	
Was passive sampling used?	Y / (N)	
Flowrate =		mL/min
ID number from controller console	#	

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

·· ld Test(s) formed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	14.40	14.43	14.39	14.36			
Spec. Cond (µmhos)	+/- 3%	.928	.940	.944	.948			
D.O. (mg/L)	+/- 10%**	4.71	4.86	4.41	4.50			
pH	+/- 0.1	6.92	6.92	6.93	6.91			
ORP (mV)	+/- 10 mV**	198	196	194	193			
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: _____ gallons
Sample Date: 5/28/08 Sample Time: 14 : 30 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? YES NO explain:_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition:

Signature: _____ Date: 5/28/08

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

acility Name: GP-Former Allison Plant 10	KEI Project #: 2829e-001/003
Sample I.D.: 169-1	Well Location:

Monitoring Well Data

Well Material	(PVC)/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	35.2	ft
Depth to product		ft
Depth to water (DTW)	19.1	ft

Sample Types (circle all applicable)

(Monitoring Well)
(Grab/Composite)
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling ⇐OR⇒ **Micropurge sampling**

Conventional sampling			Micropurge sampling	
Height of water column (H = TD – DTW)		ft	Depth of pump placement (place mid-screen)	32.2 ft
Conversion value (CV)*	x		Bubbles purged from flow cell?	(Y)/N
1 Well volume = H x CV	=	gal	Is drawdown >0.3 feet	(Y)/N
3 Well volumes =	=	gal	Was passive sampling used?	Y/(N)
Purge method (B = bailer, P = pump)	B / P		Flowrate =	mL/min
			ID number from controller console	# 165

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	15.07	15.04	14.98	14.95			
Spec. Cond (µmhos)	+/- 3%	1619	1659	1653	1696			
D.O. (mg/L)	+/- 10%**	3.97	5.14	4.52	4.27			
pH	+/- 0.1	6.85	6.84	6.85	6.84			
ORP (mV)	+/- 10 mV**	60	56	52	48			
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: _____ gallons
Sample Date: 5/28/08 Sample Time: 14 : 10 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? YES NO explain:_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition:

Signature: _____ Date: 5/28/08

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

..ility Name: GP-Former Allison Plant 10	KEI Project #: 2829e-001/003
..ple I.D.: 167-5	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon) — PVC circled
Inside Diameter, in.	(1 2 4 6) — 2 circled
Stick up or stick down height	ft
Total depth of well (TD)	22 ft
Depth to product	ft
Depth to water (DTW)	17.82 ft

Sample Types (circle all applicable)

- Monitoring Well (circled)
- Grab/Composite (Grab circled)
- Split Sample
- Duplicate (Duplicate ID: ________)
- MS/MSD
- Other________

Conventional sampling (circled, section crossed out) ⇐OR⇒ **Micropurge sampling**

Conventional sampling	
Height of water column (H = TD – DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

Micropurge sampling	
Depth of pump placement (place mid-screen)	19 ft
Bubbles purged from flow cell?	Y / N (Y circled)
Is drawdown >0.3 feet	Y / N (Y circled)
Was passive sampling used?	Y / N (N circled)
Flowrate =	mL/min
ID number from controller console	#

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

..ld Test(s) ..formed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	16.21	16.18	16.25	16.18			
Spec. Cond (μmhos)	+/- 3%	2.19	2.20	2.25	2.26			
D.O. (mg/L)	+/- 10%**	8.17	8.42	8.35	8.44			
pH	+/- 0.1	6.97	6.97	6.94	6.97			
ORP (mV)	+/- 10 mV**	267	268	267	267			
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: ________ gallons
Sample Date: 5 / 28 / 08 Sample Time: 15 : 20 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 μm cartridge / other: ______
Color of water before filtration:__________ After filtration:__________
Reaction upon addition of preservatives? YES NO explain:__________
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid) — Clear circled
Well condition:

Signature: [signature] Date: 5/28/08

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP-Former Allison Plant 10	KEI Project #: 2829e-001/003
Sample I.D.: 167-0	Well Location:

Monitoring Well Data		
Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	33	ft
Depth to product		ft
Depth to water (DTW)	17.96	ft

Sample Types (circle all applicable)
- ~~Monitoring Well~~
- ~~Grab~~/Composite
- Split Sample
- ~~Duplicate~~ (Duplicate ID: (D-0) 167-0)
- ~~MS/MSD~~
- Other_____

Conventional sampling		
Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	x	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

⇐OR⇒

Micropurge sampling		
Depth of pump placement (place mid-screen)	~~(5) 4 6~~ 30	ft
Bubbles purged from flow cell?	(Y) / N	
Is drawdown >0.3 feet	(Y) / N	
Was passive sampling used?	Y / (N)	
Flowrate =		mL/min
ID number from controller console	#	

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	16.28	16.33	16.35	16.32			
Spec. Cond (µmhos)	+/- 3%	.799	.816	.814	.814			
D.O. (mg/L)	+/- 10%**	2.39	2.24	~~1.92~~	1.50			
pH	+/- 0.1	7.02	7.02	7.02	7.02			
ORP (mV)	+/- 10 mV**	156	154	152	151			
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: _____ gallons
Sample Date: 5/28/08 Sample Time: 15:00 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? YES NO explain:_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition:

Signature:_____ Date: 5/28/08

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP-Former Allison Plant 10	KEI Project #: 2829e-001/003
Sample I.D.: 165-5	Well Location:

Monitoring Well Data		
Well Material	(PVC)/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	19.65	ft
Depth to product		ft
Depth to water (DTW)	13.93	ft

Sample Types (circle all applicable)
(Monitoring Well)
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling		
Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	x	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

⇐OR⇒

Micropurge sampling	
Depth of pump placement (place mid-screen)	ft
Bubbles purged from flow cell?	(Y) / N
Is drawdown >0.3 feet	(Y) / N
Was passive sampling used?	Y (N)
Flowrate =	mL/min
ID number from controller console	#

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	10.92	10.91	10.46	10.51			
Spec. Cond (µmhos)	+/- 3%	.981	.979	.982	.988			
D.O. (mg/L)	+/- 10%**	2.60	2.28	2.10	1.99			
pH	+/- 0.1	7.18	7.18	7.17	7.18			
ORP (mV)	+/- 10 mV**	97	95	94	93			
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: _____ gallons
Sample Date: 5/28/08 Sample Time: 15 : 50 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? YES NO explain:_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition:

Signature:_____ Date: 5/28/08

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

acility Name: GP-Former Allison Plant 10	KEI Project #: 2829e-001/003
Sample I.D.: 165-D	Well Location:

Monitoring Well Data

Well Material	(PVC)SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	46.6	ft
Depth to product		ft
Depth to water (DTW)	13.75	ft

Sample Types (circle all applicable)

(Monitoring Well)
(Grab/Composite)
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling ⇐OR⇒ **Micropurge sampling**

Height of water column (H = TD – DTW)		ft	Depth of pump placement (place mid-screen)	43.6 ft
Conversion value (CV)*	x		Bubbles purged from flow cell?	(Y) / N
1 Well volume = H x CV	=	gal	Is drawdown >0.3 feet	(Y) / N
3 Well volumes =	=	gal	Was passive sampling used?	Y (N)
Purge method (B = bailer, P = pump)	B / P		Flowrate =	mL/min
			ID number from controller console	#

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	12.66	12.59	12.50	12.54			
Spec. Cond (µmhos)	+/- 3%	.947	.960	.962	.971			
D.O. (mg/L)	+/- 10%**	4.68	4.81	4.17	3.90			
pH	+/- 0.1	7.12	7.08	7.07	7.06			
ORP (mV)	+/- 10 mV**	100	96	93	92			
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: _____ gallons
Sample Date: 5/28/08 Sample Time: 16 : 20 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? YES NO explain:_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition:

Signature:_____ Date: 5/28/08

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

...ility Name: GP-Former Allison Plant 10	KEI Project #: 2829e-001/003
...ple I.D.: 1665	Well Location:

Monitoring Well Data		
Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	19	ft
Depth to product		ft
Depth to water (DTW)	14.5	ft

Sample Types (circle all applicable)

(~~Monitoring Well~~)
(~~Grab~~/Composite)
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling		
Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	x	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

⇐OR⇒

Micropurge sampling	
Depth of pump placement (place mid-screen)	16 ft
Bubbles purged from flow cell?	(Y) / N
Is drawdown >0.3 feet	(Y) / N
Was passive sampling used?	Y / (N)
Flowrate =	mL/min
ID number from controller console	#

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

...d Test(s) ...ormed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	17.73	17.68	17.32				
Spec. Cond (µmhos)	+/- 3%	.807	.806	.809				
D.O. (mg/L)	+/- 10%**	1.71	1.63	1.55				
pH	+/- 0.1	6.97	6.97	6.97				
ORP (mV)	+/- 10 mV**	254	255	254				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: _____ gallons
Sample Date: 5/25/08 Sample Time: 16 : 40 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? YES NO explain:_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition:

Signature: _____ Date: 5/25/08

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP-Former Allison Plant 10	KEI Project #: 2829c-001/003
Sample I.D.: 1660	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	52	ft
Depth to product		ft
Depth to water (DTW)	14.3	ft

Sample Types (circle all applicable)

(Monitoring Well)
(Grab/Composite)
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

(Conventional sampling) ⇐OR⇒

Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	x	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

Micropurge sampling

Depth of pump placement (place mid-screen)	47 ft
Bubbles purged from flow cell?	(Y) / N
Is drawdown >0.3 feet	(Y) / N
Was passive sampling used?	Y (N)
Flowrate =	mL/min
ID number from controller console	#

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	20.12	19.98	19.72	19.60			
Spec. Cond (µmhos)	+/- 3%	.635	.636	.636	.636			
D.O. (mg/L)	+/- 10%**	3.95	3.60	3.44	3.50			
pH	+/- 0.1	7.26	7.26	7.25	7.25			
ORP (mV)	+/- 10 mV**	90	87	87	87			
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: _____ gallons
Sample Date: 5/25/05 Sample Time: 17:10 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? YES NO explain:_____
Appearance of Water: (Clear/Slightly Turbid/(Turbid)/Very Turbid)
Well condition:

Signature: _____ Date: 5/26/05

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

...ility Name: GP-Former Allison Plant 10	KEI Project #: 2829e-001/003
...ple I.D.: 147 AR	Well Location:

Monitoring Well Data		
Well Material	(PVC)/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	29	ft
Depth to product		ft
Depth to water (DTW)	11.0	ft

Sample Types (circle all applicable)

(Monitoring Well)
(Grab/Composite)
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

(Conventional sampling)		
Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	x	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

⇐OR⇒

Micropurge sampling		
Depth of pump placement (place mid-screen)	26	ft
Bubbles purged from flow cell?	(Y)/ N	
Is drawdown >0.3 feet	(Y)/ N	
Was passive sampling used?	Y /(N)	
Flowrate =		mL/min
ID number from controller console	#	

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

...d Test(s) ...ormed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	15.22	15.13	15.10				
Spec. Cond (µmhos)	+/- 3%	2.87	2.87	2.87				
D.O. (mg/L)	+/- 10%**	4.15	5.09	4.73				
pH	+/- 0.1	6.75	6.74	6.74				
ORP (mV)	+/- 10 mV**	131	130	129				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: _____ gallons
Sample Date: 5 / 29 / 08 Sample Time: 10 : 00 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? YES NO explain:_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition:

Signature: _____ Date: 5/29/08

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

acility Name: GP-Former Allison Plant 10	KEI Project #: 2829e-001/003
Sample I.D.: 132 R	Well Location:

Monitoring Well Data	
Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1/2/4/6)
Stick up or stick down height	ft
Total depth of well (TD)	19 ft
Depth to product	ft
Depth to water (DTW)	11.1 ft

Sample Types (circle all applicable)

(~~Monitoring Well~~)
(~~Grab~~/Composite)
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

(Conventional sampling)		
Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	x	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

⇐OR⇒

Micropurge sampling	
Depth of pump placement (place mid-screen)	16 ft
Bubbles purged from flow cell?	(Y)/N
Is drawdown >0.3 feet	(Y)/N
Was passive sampling used?	Y/(N)
Flowrate =	mL/min
ID number from controller console	#

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	15.02	14.98	14.99	14.89			
Spec. Cond (µmhos)	+/- 3%	1.413	1.410	1.384	1.382			
D.O. (mg/L)	+/- 10%**	7.69	7.23	6.74	6.70			
pH	+/- 0.1	6.96	6.93	6.90	6.89			
ORP (mV)	+/- 10 mV**	248	249	250	250			
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: _____ gallons
Sample Date: 5/29/08 Sample Time: 10 : 20 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? ~~YES~~ NO explain:_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition:

Signature:_____ Date: 5/29/08

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP-Former Allison Plant 10	KEI Project #: 2829e-001/003
Sample I.D.: 148R	Well Location:

Monitoring Well Data

Well Material	(PVC)/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	25	ft
Depth to product		ft
Depth to water (DTW)	11.0	ft

Sample Types (circle all applicable)

(Monitoring Well)
(Grab/Composite)
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

(Conventional sampling) ⇐OR⇒ **Micropurge sampling**

Height of water column (H = TD – DTW)		ft	Depth of pump placement (place mid-screen)	22 ft
Conversion value (CV)*	x		Bubbles purged from flow cell?	(Y)/ N
1 Well volume = H x CV	=	gal	Is drawdown >0.3 feet	(Y)/ N
3 Well volumes =	=	gal	Was passive sampling used?	Y /(N)
Purge method (B = bailer, P = pump)	B / P		Flowrate =	mL/min
			ID number from controller console	#

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	13.75	13.51	13.41	13.37	13.20		
Spec. Cond (µmhos)	+/- 3%	1.55	1.56	1.55	1.56	1.56		
D.O. (mg/L)	+/- 10%**	3.89	4.33	4.78	4.90	5.58		
pH	+/- 0.1	6.87	6.88	6.88	6.90	6.91		
ORP (mV)	+/- 10 mV**	291	290	290	290	290		
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: _____ gallons
Sample Date: 5/29/05 Sample Time: 10 : 40 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? YES NO explain:_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition:

Signature: _____ Date: 5/29/05

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

acility Name: GP-Former Allison Plant 10	KEI Project #: 2829e-001/003
Sample I.D.: 153	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	21	ft
Depth to product		ft
Depth to water (DTW)	13.0	ft

Sample Types (circle all applicable)

(Monitoring Well)
(Grab/Composite)
Split Sample
(Duplicate) (Duplicate ID: _____)
(MS/MSD)
Other _____

Conventional sampling

Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	x	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	18 ft
Bubbles purged from flow cell?	(Y) / N
Is drawdown >0.3 feet	(Y) / N
Was passive sampling used?	Y / (N)
Flowrate =	mL/min
ID number from controller console	#

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

ield Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	13.27	13.14	13.21	13.21			
Spec. Cond (µmhos)	+/- 3%	.663	.676	.741	.692			
D.O. (mg/L)	+/- 10%**	11.31	11.46	11.24	11.30			
pH	+/- 0.1	7.37	7.36	7.37	7.35			
ORP (mV)	+/- 10 mV**	302	300	299	300			
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: _____ gallons
Sample Date: 5 / 29 / 08 Sample Time: 11 : 10 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration: _____ After filtration: _____
Reaction upon addition of preservatives? YES NO explain: _____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition:

Signature: _____ Date: 5/29/08

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP-Former Allison Plant 10	KEI Project #: 2829e-001/003
Sample I.D.: 302	Well Location:

Monitoring Well Data		
Well Material	(PVC)/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	55	ft
Depth to product		ft
Depth to water (DTW)	12.35	ft

Sample Types (circle all applicable)

(Monitoring Well)
(Grab/Composite)
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other _____

Conventional sampling		
Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	x	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

⇐OR⇒

Micropurge sampling		
Depth of pump placement (place mid-screen)	52	ft
Bubbles purged from flow cell?	(Y) / N	
Is drawdown >0.3 feet	(Y) / N	
Was passive sampling used?	Y / (N)	
Flowrate =		mL/min
ID number from controller console	#	

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	14.30	14.30	14.35	14.34			
Spec. Cond (µmhos)	+/- 3%	.543	.543	.543	.544			
D.O. (mg/L)	+/- 10%**	4.12	3.82	3.60	3.52			
pH	+/- 0.1	7.52	7.51	7.51	7.51			
ORP (mV)	+/- 10 mV**	50	50	50	49			
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: _____ gallons
Sample Date: 5/29/08 Sample Time: 11 : 35 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration: _____ After filtration: _____
Reaction upon addition of preservatives? YES NO explain: _____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition:

Signature: _____ Date: 5/29/08

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP-Former Allison Plant 10	KEI Project #: 2829e-001/003
Sample I.D.: 133 R	Well Location:

Monitoring Well Data		
Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	16	ft
Depth to product		ft
Depth to water (DTW)	9.0	ft

Sample Types (circle all applicable)

- (Monitoring Well)
- Grab/Composite
- Split Sample
- Duplicate (Duplicate ID: _____)
- MS/MSD
- Other_____

Conventional sampling		
Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	x	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

⇐OR⇒

Micropurge sampling	
Depth of pump placement (place mid-screen)	13 ft
Bubbles purged from flow cell?	(Y)/ N
Is drawdown >0.3 feet	(Y) / N
Was passive sampling used?	Y / (N)
Flowrate =	mL/min
ID number from controller console	#

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	14.09	13.95	13.75				
Spec. Cond (µmhos)	+/- 3%	1.041	1.039	1.034				
D.O. (mg/L)	+/- 10%**	2.93	2.81	2.70				
pH	+/- 0.1	6.93	6.92	6.92				
ORP (mV)	+/- 10 mV**	316	316	316				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: _____ gallons
Sample Date: 5 / 29 / 08 Sample Time: 13 : 10 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? YES NO explain:_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition:

Signature: _____ Date: 5/29/08

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

cility Name: GP-Former Allison Plant 10	KEI Project #: 2829e-001/003
mple I.D.: 152	Well Location:

Monitoring Well Data		
Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	15.6	ft
Depth to product		ft
Depth to water (DTW)	13.23	ft

Sample Types (circle all applicable)

~~Monitoring Well~~
~~Grab~~/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling		
Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	x	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

⇐OR⇒

Micropurge sampling		
Depth of pump placement (place mid-screen)	15.6	ft
Bubbles purged from flow cell?	Y / N	
Is drawdown >0.3 feet	Y / N	
Was passive sampling used?	Y / N	
Flowrate =		mL/min
ID number from controller console	#	

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

ld Test(s) rformed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	16.82	16.80	16.60	16.55			
Spec. Cond (µmhos)	+/- 3%	1230	1554	1552	1562			
D.O. (mg/L)	+/- 10%**	9.92	9.97	10.05	10.03			
pH	+/- 0.1	7.56	7.56	7.57	7.54			
ORP (mV)	+/- 10 mV**	305	302	305	309			
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: _____ gallons
Sample Date: 5/29/08 Sample Time: 13 : 35 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? YES NO explain:_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition:

Signature: _____ Date: 5/29/08

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP-Former Allison Plant 10	KEI Project #: 2829e-001/003
Sample I.D.: 146	Well Location:

Monitoring Well Data		
Well Material	(PVC)/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	23.24	ft
Depth to product		ft
Depth to water (DTW)	9.32	ft

Sample Types (circle all applicable)

(Monitoring Well)
(Grab/Composite)
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

(Conventional sampling)		
Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	x	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

⇐OR⇒

Micropurge sampling		
Depth of pump placement (place mid-screen)	20.24	ft
Bubbles purged from flow cell?	(Y)/ N	
Is drawdown >0.3 feet	(Y)/ N	
Was passive sampling used?	Y /(N)	
Flowrate =		mL/min
ID number from controller console	#	

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	16.35	16.26	16.17				
Spec. Cond (µmhos)	+/- 3%	.905	.903	.904				
D.O. (mg/L)	+/- 10%**	2.23	2.09	1.90				
pH	+/- 0.1	6.86	6.85	6.85				
ORP (mV)	+/- 10 mV**	161	161	162				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: _____ gallons
Sample Date: 5/29/08 Sample Time: 14 : 00 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? YES NO explain:_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition:

Signature:_____ Date: 5/29/08

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP-Former Allison Plant 10	KEI Project #: 2829e-001/003
Sample I.D.: 15D	Well Location:

Monitoring Well Data		
Well Material	(PVC)/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	18.48	ft
Depth to product		ft
Depth to water (DTW)	12.33	ft

Sample Types (circle all applicable)

~~Monitoring Well~~
~~Grab~~/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling		
Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	x	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

⇐OR⇒

Micropurge sampling		
Depth of pump placement (place mid-screen)	15.48	ft
Bubbles purged from flow cell?	(Y)/ N	
Is drawdown >0.3 feet	(Y)/ N	
Was passive sampling used?	Y /(N)	
Flowrate =		mL/min
ID number from controller console	#	

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	15.67	15.30	14.88				
Spec. Cond (µmhos)	+/- 3%	.733	.734	.740				
D.O. (mg/L)	+/- 10%**	1.45	1.30	1.10				
pH	+/- 0.1	7.00	6.99	6.98				
ORP (mV)	+/- 10 mV**	287	287	286				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: _____ gallons
Sample Date: 5/29/08 Sample Time: 14 : 25 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? ~~YES~~ NO explain:_____
Appearance of Water: (Clear/Slightly Turbid/~~Turbid~~/Very Turbid)
Well condition:

Signature:_____ Date: 5/29/08

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP-Former Allison Plant 10	KEI Project #: 2829e-001/003
Sample I.D.: EW-2	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1/2/4/6)	
Stick up or stick down height		ft
Total depth of well (TD)	16.87	ft
Depth to product		ft
Depth to water (DTW)	12.06	ft

Sample Types (circle all applicable)

(Monitoring Well)
~~Grab~~/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling ⇐OR⇒ **Micropurge sampling**

Conventional sampling			Micropurge sampling	
Height of water column (H = TD – DTW)		ft	Depth of pump placement (place mid-screen)	13.87 ft
Conversion value (CV)*	x		Bubbles purged from flow cell?	(Y)/N
1 Well volume = H x CV	=	gal	Is drawdown >0.3 feet	(Y)/N
3 Well volumes =	=	gal	Was passive sampling used?	Y/(N)
Purge method (B = bailer, P = pump)	B / P		Flowrate =	mL/min
			ID number from controller console	#

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	15.47	15.30	15.27				
Spec. Cond (µmhos)	+/- 3%	.713	.714	.723				
D.O. (mg/L)	+/- 10%**	2.46	2.36	2.22				
pH	+/- 0.1	7.02	7.01	7.00				
ORP (mV)	+/- 10 mV**	260	256	251				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: _____ gallons
Sample Date: 5/29/08 Sample Time: 14 : 40 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? ~~YES~~ NO explain:_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition:

Signature: _____ Date: 5/29/08

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP-Former Allison Plant 10	KEI Project #: 2829e-001/003
Sample I.D.: EW-1	Well Location:

Monitoring Well Data		
Well Material	(PVC)/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	14.82	ft
Depth to product		ft
Depth to water (DTW)	11.12	ft

Sample Types (circle all applicable)

~~Monitoring Well~~
~~Grab~~/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling		
Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	x	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

⇐OR⇒

Micropurge sampling		
Depth of pump placement (place mid-screen)	11.82	ft
Bubbles purged from flow cell?	(Y)/N	
Is drawdown >0.3 feet	(Y)/N	
Was passive sampling used?	Y/(N)	
Flowrate =		mL/min
ID number from controller console	#	

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	14.51	14.31	14.33				
Spec. Cond (µmhos)	+/- 3%	.839	.837	.843				
D.O. (mg/L)	+/- 10%**	5.34	5.70	5.69				
pH	+/- 0.1	6.59	6.60	6.59				
ORP (mV)	+/- 10 mV**	69	68	68				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: _____ gallons
Sample Date: 5/29/08 Sample Time: 15 : 00 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? YES NO explain:_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition:

Signature: _____ Date: 5/29/08

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP-Former Allison Plant 10	KEI Project #: 2829e-001/003
Sample I.D.: 163	Well Location:

Monitoring Well Data	
Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	19.50 ft
Depth to product	ft
Depth to water (DTW)	10.95 ft

Sample Types (circle all applicable)

(Monitoring Well)
(Grab/Composite)
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling		⇐OR⇒	Micropurge sampling	
Height of water column (H = TD – DTW)	ft		Depth of pump placement (place mid-screen)	16.50 ft
Conversion value (CV)*	x		Bubbles purged from flow cell?	Y / N
1 Well volume = H x CV	= gal		Is drawdown >0.3 feet	Y / N
3 Well volumes =	= gal		Was passive sampling used?	Y / N
Purge method (B = bailer, P = pump)	B / P		Flowrate =	mL/min
			ID number from controller console	#

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	14.97	14.93	14.75				
Spec. Cond (µmhos)	+/- 3%	1667	1665	1669				
D.O. (mg/L)	+/- 10%**	1.67	1.64	1.63				
pH	+/- 0.1	6.79	6.50	6.80				
ORP (mV)	+/- 10 mV**	40	39	40				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: _____ gallons
Sample Date: 5/29/08 Sample Time: 15 : 30 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? YES NO explain:_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition:

Signature: _____ Date: 5/29/08

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP-Former Allison Plant 10	KEI Project #: 2829e-001/003
Sample I.D.: 173	Well Location:

Monitoring Well Data		
Well Material	(PVC)/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	17.7	ft
Depth to product		ft
Depth to water (DTW)	12.36	ft

Sample Types (circle all applicable)

(Monitoring Well)
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling		
Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	x	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

⇐OR⇒

Micropurge sampling	
Depth of pump placement (place mid-screen)	14.7 ft
Bubbles purged from flow cell?	(Y)/ N
Is drawdown >0.3 feet	(Y)/ N
Was passive sampling used?	Y /(N)
Flowrate =	mL/min
ID number from controller console	#

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	14.24	14.26	14.22				
Spec. Cond (µmhos)	+/- 3%	.774	.762	.764				
D.O. (mg/L)	+/- 10%**	6.24	6.60	6.20	5.89	6.35		
pH	+/- 0.1	7.11	7.11	7.10				
ORP (mV)	+/- 10 mV**	51	82	52				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: _____ gallons
Sample Date: 5/30/08 Sample Time: 9 : 50 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? YES NO explain:_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition:

Signature: _____ Date: 5/30/08

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP-Former Allison Plant 10	KEI Project #: 2829e-001/003
Sample I.D.: 156	Well Location:

Monitoring Well Data		
Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	18.6	ft
Depth to product		ft
Depth to water (DTW)	11.6	ft

Sample Types (circle all applicable)

- ~~Monitoring Well~~
- Grab/Composite
- Split Sample
- Duplicate (Duplicate ID: _____)
- MS/MSD
- Other_____

Conventional sampling		
Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	x	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

⇐OR⇒

Micropurge sampling		
Depth of pump placement (place mid-screen)	15.6	ft
Bubbles purged from flow cell?	Y / N	
Is drawdown >0.3 feet	Y / N	
Was passive sampling used?	Y / N	
Flowrate =		mL/min
ID number from controller console	#	

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	13.77	13.62	13.66				
Spec. Cond (µmhos)	+/- 3%	.809	.807	.801				
D.O. (mg/L)	+/- 10%**	.91	.92	.90				
pH	+/- 0.1	6.99	6.90	6.98				
ORP (mV)	+/- 10 mV**	217	215	218				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: _____ gallons
Sample Date: 5/30/08 Sample Time: 10 : 20 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? YES NO explain:_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition:

Signature: _____ Date: 5/30/08

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP-Former Allison Plant 10	KEI Project #: 2829e-001/003
Sample I.D.: ~~10-1~~ 10-1R	Well Location:

Monitoring Well Data		
Well Material	(PVC)/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	18.6	ft
Depth to product		ft
Depth to water (DTW)	14.15	ft

Sample Types (circle all applicable)

(~~Monitoring Well~~)
(Grab/Composite)
Split Sample
(~~Duplicate~~) (Duplicate ID: 10-1R(DUP))
(MS/MSD)
Other_____

Conventional sampling		
Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	x	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

⇐OR⇒

Micropurge sampling		
Depth of pump placement (place mid-screen)	15.6	ft
Bubbles purged from flow cell?	(Y) / N	
Is drawdown >0.3 feet	(Y) / N	
Was passive sampling used?	Y (N)	
Flowrate =		mL/min
ID number from controller console	#	

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	11.80	11.83	11.82				
Spec. Cond (µmhos)	+/- 3%	.1645	.1649	.1649				
D.O. (mg/L)	+/- 10%**	5.47	5.36	5.25				
pH	+/- 0.1	7.06	7.06	7.06				
ORP (mV)	+/- 10 mV**	245	245	245				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: _____ gallons
Sample Date: 5/30/08 Sample Time: 10 : 40 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? YES NO explain:_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition:

Signature: _____ Date: 5/30/08

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP-Former Allison Plant 10	KEI Project #: 2829e-001/003
Sample I.D.: 157	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	18	ft
Depth to product		ft
Depth to water (DTW)	11.34	ft

Sample Types (circle all applicable)

(Monitoring Well)
(Grab/Composite)
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

(Conventional sampling) ⇐OR⇒ **Micropurge sampling**

Height of water column (H = TD – DTW)		ft	Depth of pump placement (place mid-screen)	15 ft
Conversion value (CV)*	x		Bubbles purged from flow cell?	(Y) / N
1 Well volume = H x CV	=	gal	Is drawdown >0.3 feet	(Y) / N
3 Well volumes =	=	gal	Was passive sampling used?	Y / (N)
Purge method (B = bailer, P = pump)	B / P		Flowrate =	mL/min
			ID number from controller console	#

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	14.99	14.34	13.99	13.89			
Spec. Cond (µmhos)	+/- 3%	.1736	.1736	.1742	.1743			
D.O. (mg/L)	+/- 10%**	7.06	5.03	5.15	5.20			
pH	+/- 0.1	7.02	6.99	6.98	6.99			
ORP (mV)	+/- 10 mV**	211	210	210	209			
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: _____ gallons
Sample Date: 5/30/08 Sample Time: 11 : 30 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? YES NO explain:_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition:

Signature:_____ Date: 5/30/08

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP-Former Allison Plant 10	KEI Project #: 2829e-001/003
Sample I.D.: 168	Well Location:

Monitoring Well Data	
Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	25 ft
Depth to product	ft
Depth to water (DTW)	18.15 ft

Sample Types (circle all applicable)

(Monitoring Well)
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling		
Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	x	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

⇐OR⇒

Micropurge sampling		
Depth of pump placement (place mid-screen)	22	ft
Bubbles purged from flow cell?	(Y) / N	
Is drawdown >0.3 feet	(Y) / N	
Was passive sampling used?	Y / (N)	
Flowrate =		mL/min
ID number from controller console	#	

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	14.80	14.66	14.60	14.58			
Spec. Cond (µmhos)	+/- 3%	.932	.929	.930	.925			
D.O. (mg/L)	+/- 10%**	3.53	3.13	3.19	3.21			
pH	+/- 0.1	6.97	6.95	6.95	6.94			
ORP (mV)	+/- 10 mV**	259	260	260	261			
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: _____ gallons
Sample Date: 5/30/08 Sample Time: 12 : 60 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? YES NO explain:_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition:

Signature: _____ Date: 5/30/08

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP-Former Allison Plant 10	KEI Project #: 2829e-001/003
Sample I.D.: 157	Well Location:

Monitoring Well Data		
Well Material	(PVC)/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	18.7	ft
Depth to product		ft
Depth to water (DTW)	13.66	ft

Sample Types (circle all applicable)

(Monitoring Well)
(Grab/Composite)
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling		
Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	x	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

⇐OR⇒

Micropurge sampling		
Depth of pump placement (place mid-screen)	15.7	ft
Bubbles purged from flow cell?	(Y) / N	
Is drawdown >0.3 feet	(Y) / N	
Was passive sampling used?	Y (N)	
Flowrate =		mL/min
ID number from controller console	#	

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	14.11	14.19	13.59				
Spec. Cond (µmhos)	+/- 3%	1609	1600	1609				
D.O. (mg/L)	+/- 10%**	5.46	8.24	8.19				
pH	+/- 0.1	7.07	7.06	7.05				
ORP (mV)	+/- 10 mV**	295	298	299				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: _____ gallons
Sample Date: 5/30/06 Sample Time: 13:20 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? YES NO explain:_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition:

Signature:_____ Date: 5/30/06

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP-Former Allison Plant 10	KEI Project #: 2829e-001/003
Sample I.D.: 16D	Well Location:

Monitoring Well Data		
Well Material	(PVC)/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	11.6	ft
Depth to product		ft
Depth to water (DTW)	2.65	ft

Sample Types (circle all applicable)
~~Monitoring Well~~
~~Grab~~/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling		
Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	x	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

⇐OR⇒

Micropurge sampling	
Depth of pump placement (place mid-screen)	8.6 ft
Bubbles purged from flow cell?	(Y) / N
Is drawdown >0.3 feet	(Y) / N
Was passive sampling used?	Y (N)
Flowrate =	mL/min
ID number from controller console	#

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	18.62	19.65	20.52				
Spec. Cond (µmhos)	+/- 3%	1.251	1.243	1.239				
D.O. (mg/L)	+/- 10%**	1.49	1.31	1.30				
pH	+/- 0.1	6.94	6.93	6.93				
ORP (mV)	+/- 10 mV**	94	94	95				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: _____ gallons
Sample Date: 5/30/06 Sample Time: 13 : 40 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? YES NO explain:_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition:

Signature:_____ Date: 5/30/06

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP-Former Allison Plant 10	KEI Project #: 2829e-001/003
Sample I.D.: 161	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	13	ft
Depth to product		ft
Depth to water (DTW)	4.15	ft

Sample Types (circle all applicable)

(Monitoring Well)
(Grab/Composite)
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling ⇐OR⇒ **Micropurge sampling**

Conventional sampling			Micropurge sampling	
Height of water column (H = TD – DTW)		ft	Depth of pump placement (place mid-screen)	10 ft
Conversion value (CV)*	x		Bubbles purged from flow cell?	(Y) / N
1 Well volume = H x CV	=	gal	Is drawdown >0.3 feet	(Y) / N
3 Well volumes =	=	gal	Was passive sampling used?	Y / (N)
Purge method (B = bailer, P = pump)	B / P		Flowrate =	mL/min
			ID number from controller console	#

*Conversion values (gal/ft): 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	16.50	16.60	16.58	16.70			
Spec. Cond (µmhos)	+/- 3%	1,220	1,206	1,208	1,198			
D.O. (mg/L)	+/- 10%**	2.77	1.83	1.84	1.81			
pH	+/- 0.1	6.77	6.73	6.73	6.74			
ORP (mV)	+/- 10 mV**	180	181	181	182			
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: _____ gallons
Sample Date: 5/30/08 Sample Time: 14 : 00 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? YES NO explain:_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition:

Signature: _____ Date: 5/30/08